

Appl. No. 10/063,868

Amendments to the Specification:

Please replace the original paragraph with the following replacement paragraph:

Paragraph beginning on page 11, line 4, and ending on page 12, line 22 with the following replacement paragraph:

The inverter 24 then applies the received voltage signal to the electrical machine 28, by the use of bus 27, thereby producing an electrical current signal, effective to cause the electrical machine 28 to produce a desired amount of torque. The electrical current signal, which is output from the inverter 24, is also communicated to the current regulator 20, by the bus 27, thereby allowing the current regulator 20 to ensure that the next received electrical current signal is modified by this signal, thereby efficiently correcting for any undesired torque production from the electric machine 28. Additionally, the voltage signal which is produced by the current regulator 20 is communicated to the diagnostic portion 18, by the use of bus 52, where its value is compared with the voltage value which was identified/produced from the model portion 16. Should these compared voltage values differ by at least a certain amount, a diagnostic signal 30 is generated by the controller 12 to a selectively energizable or activatable positive feed back assembly 32, effective to activate the positive feedback assembly and to notify an operator or use of the assembly 10 that a certain operational state (e.g., a state in which an undesired amount of torque is being produced) is occurring within the assembly 10. Examples of such a positive feed back assembly 32 may include, by way of example and without limitation, a selectively energizable light assembly 34 and/or a selectively energizable audio assembly 36. Additionally or alternatively, controller 12 may also automatically (i.e., without use intervention) deactivate

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the electric machine 28 when the assembly 10 resides in such an operational state. In one non-limiting embodiment, this certain amount exists where the difference between the voltage value identified from the model portion 16 and the voltage value of the signal produced by the current regulator 20 is equal to about 10% of the value identified or selected by the model portion 16. Other threshold values may be alternatively used. In this manner, the user is given a positive indication of the production of an undesirable amount of torque from the machine 28 and the electric machine 28 may be automatically (e.g., without user intervention) deactivated. One non-limiting method which may be used to automatically deactivate the electric machine 28 is to cause the controller 22 to prevent electrical energy from being delivered to the electric machine 28 by the use of bus 50.

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